

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1983:165177 CAPLUS
 DN 98:165177
 ED Entered STN: 12 May 1984
 TI Corrosion prevention of silver-plated stainless steels
 PA Furukawa Electric Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC C23F011-14; C23F011-16
 CC 55-10 (Ferrous Metals and Alloys)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57198269	A2	19821204	JP 1981-81432	19810528 <--
	JP 01028106	B4	19890601		
PRAI	JP 1981-81432		19810528		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP	57198269	IC	C23F011-14IC C23F011-16
AB	Ag-plated stainless steels are dip-coated with an organic solvent containing 0.01-5% of a higher fatty amine and/or a mercaptan. Thus, a Ag-plated (1μ thick) SUS 304 [11109-50-5] strip was dip-coated with 2% octadecylamine [124-30-1] in EtOH and then exposed to a humid (95% relative humidity) air at 60° for 500 h without corroding its surface. The use of octadecylmercaptan [2885-00-9], eicosylamine [10525-37-8], or eicosylmercaptan [13373-97-2] yielded the same result.		
ST	silver electroplating stainless steel corrosion; corrosion inhibitor silver plated steel		
IT	Corrosion inhibitors (octadecylamine in ethanol, for silver-plated stainless steels)		
IT	Coating process (dip, of silver-plated stainless steel, for corrosion prevention)		
IT	124-30-1	2885-00-9	10525-37-8 13373-97-2
	RL: USES (Uses) (corrosion inhibitor, for silver-plated stainless steel)		
IT	7440-22-4, uses and miscellaneous		
	RL: USES (Uses) (electroplate, on austenitic stainless steel, dip coating for corrosion prevention of)		
IT	11109-50-5		
	RL: PEP (Physical, engineering or chemical process); PROC (Process) (silver-plated, corrosion inhibitors for)		
RN	124-30-1		
RN	2885-00-9		
RN	10525-37-8		
RN	13373-97-2		
RN	7440-22-4		
RN	11109-50-5		

L4 ANSWER 2 OF 3 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
 AN 1983-06068K [03] WPIX
 DNC C1983-006003
 TI Corrosion-inhibition of silver-coated stainless steel - by dipping into organic solvent containing higher aliphatic amine and/or mercaptan.
 DC E19 L03 M14
 PA (FURU) FURUKAWA ELECTRIC CO LTD
 CYC 1
 PI JP 57198269 A 19821204 (198303)* 3 <--
 JP 01028106 B 19890601 (198926)

ADT JP 57198269 A JP 1981-81432 19810528
PRAI JP 1981-81432 19810528
IC C23F011-14
AB JP 57198269 A UPAB: 19930925

A stainless steel partially or wholly coated with silver or its alloy is dipped in an organic solvent containing 0.01-5 weight% of a higher aliphatic amine, mercaptan or mixture. The higher aliphatic amine may be dodecyl amine, octadecyl amine, eicosyl amine or nonyl amine. The mercaptane may be a 8-24 C cpd. such as dodecyl mercaptan, octadecyl mercaptan, eicosyl mercaptan or nonyl mercaptan. The aliphatic amine or mercaptan is added to an organic solvent, e.g. ethanol, acetone, MEK or ether at a rate of 0.01-5, pref. 0.1-5 weight%.

Aqueous-coated stainless steel article, useful as an electronic or electric part, includes a lot of pinholes in its silver layer. The pinholes form an electric corrosion system to accelerate the corrosion of the activated stainless steel substrate. The corrosion prod. contaminates the silver layer and deteriorates the electric junction and the solderability of the silver-coated stainless steel article. This defect is now overcome by treating the surface with the new corrosion-inhibitor.

FS CPI
FA AB
MC CPI: E10-B04D; E10-E03; L03-H; M14-F01; M14-K

L4 ANSWER 3 OF 3 JAPIO (C) 2005 JPO on STN
AN 1982-198269 JAPIO

TI ANTICORROSIVE TREATMENT OF SILVER PLATED STAINLESS STEEL
IN SUZUKI SATOSHI; SHIGA SHOJI
PA FURUKAWA ELECTRIC CO LTD:THE

PI JP 57198269 A 19821204 Showa
AI JP 1981-81432 (JP56081432 Showa) 19810528

PRAI JP 1981-81432 19810528

SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1982

IC ICM C23F011-14
ICS C23F011-16

AB PURPOSE: To provide a superior corrosion preventing property to silver plated stainless steel by immersing the steel in an organic solvent containing higher aliphatic amine and/or mercaptan at a specified concentration
CONSTITUTION: Stainless steel plated with silver or a silver alloy alloy or partially is immersed in an organic solvent containing 0.01~5wt% higher aliphatic amine and/or mercaptan. As the amine 8~24 C dodecylamine, octadecylamine, eicosylamine, nonylamine or the like is used. As the mercaptan 8~24 C dodecylmercaptan, octadecylmercaptan, eicosylmercaptan, nonylmercaptan or the like is used. The organic solvent is ethanol, acetone, methyl ethyl ketone, ether or the like.
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